

Title (en)  
POWER SCREWDRIVER AND PROCESS FOR TIGHTENING SCREWS

Title (de)  
SCHRAUBER UND VERFAHREN ZUM ANZIEHEN EINER SCHRAUBVERBINDUNG MITTELS DES SCHRAUBERS

Title (fr)  
VISSEUSE ET PROCEDE DE SERRAGE DE VIS

Publication  
**EP 0773854 A1 19970521 (DE)**

Application  
**EP 95919965 A 19950601**

Priority  
• DE 9500711 W 19950601  
• DE 4427452 A 19940803

Abstract (en)  
[origin: DE4427452A1] A power screwdriver has a hydraulic percussion mechanism (17) with an input shaft (16) capable of being rotated by a drive motor (12) and an output shaft (18) coupled to a screw driving tool. The percussion mechanism (17) further has a high pressure chamber (35) and a low pressure chamber (36) filled with a pressure medium and in communication through an overflow duct (37). The overflow duct (37) has a constant flow cross-section. An angular momentum (M) that can be utilized at the output shaft (18) is generated by changing the speed of rotation (n) of the input shaft (16). For that purpose, the screwdriver (10) has means (27) for preselecting the speed of rotation (n) of the input shaft (16) or the angular momentum (M) at the output shaft (18).

IPC 1-7  
**B25B 23/147**

IPC 8 full level  
**B25B 21/02** (2006.01); **B25B 23/145** (2006.01); **B25B 23/147** (2006.01); **B25B 23/151** (2006.01)

CPC (source: EP)  
**B25B 21/02** (2013.01); **B25B 23/1453** (2013.01); **B25B 23/1456** (2013.01)

Citation (search report)  
See references of WO 9604106A1

Cited by  
CN110621444A; US10160049B2; WO2018210585A1; US10589413B2; US11192232B2; US11759926B2

Designated contracting state (EPC)  
DE FR GB SE

DOCDB simple family (publication)  
**DE 4427452 A1 19960208**; DE 59507705 D1 20000302; EP 0773854 A1 19970521; EP 0773854 B1 20000126; JP H10503432 A 19980331; WO 9604106 A1 19960215

DOCDB simple family (application)  
**DE 4427452 A 19940803**; DE 59507705 T 19950601; DE 9500711 W 19950601; EP 95919965 A 19950601; JP 50607695 A 19950601